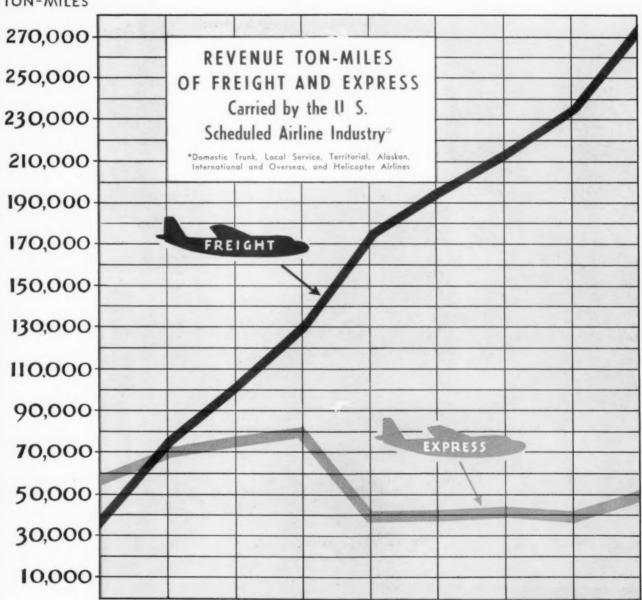
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Val. 29 No. 1

THE AIR MAGAZINE FOR THE RUSINESS EXECUTIVE

July 1984





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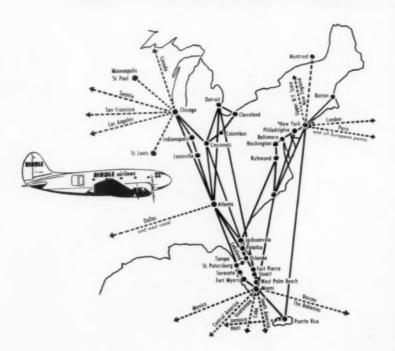


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PAGE 4-AIR TRANSPORTATION-Air Commerce

SAIR TRANSPORTATION

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AIR TRANSPORTATION, published once each month, thoroughly covers the entire air cargo industry for the benefit of all those engaged in shipping and handling domestic and interair parcel post, as well as using the domestic and international air mail services. Included in AIR TRANSPOR-TATION'S wide coverage are: air shipping, cargoplane development, rates, packaging, materials handling, docu-mentation, air cargo terminal development, insurance, routing, interline procedures, new equipment, commer-cial airlines, military air transport service, air freight forwarders, and business flights.

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Net circulation of this issue (not including distribution to advertising agencies, advertising prospects, public relations firms, newspapers, and magazines; special distributions for promotional purposes; and cash sales) totals 9,673 copies. Gross circulation is more than 10,200 copies. This issue will be received by a minimum of

8,591 shipping and business execu-tives including:

5,771 traffic managers

956 presidents; partners; proprietors

50 vice presidents

43 secretaries; treasurers; comp-trollers

293 freight forwarders

325 export-import managers; export-import merchants

259 purchasing agents

837 aviation department heads of industrial firms

57 general and sales managers

339 airline executives and other per-sonnel

134 military establishments and per-

72 trade organizations

236 Federal, state and city govern-ment departments

87 educational institutions and stu-dents

66 business and public libraries 44 foreign governments

43 aircraft and aircraft equipment manufacturers

41 miscellaneous

The most recent study of Air Transportation's circulation has shown a pass-along of each issue to 3.45 persons, or a total readership of 4.45 persons per copy. On this basis, this issue of Air Transportation will be read by a minimum of 43,045 persons. The latter figure does not include readers not classified under "net circulation."

VOL. 29

JULY, 1956

No. I

West Coast Clearing House Joined by TWA

LOS ANGELES—TWA has joined the Transport Clearings of Los Angeles, a motor carrier organization, which will enable payment of both ground and air shipments on a single bill. This marks the first time an airline has become associated with the West Coast Clearing House.

with the West Coast Clearing House.
The airline stated that it will be able to service shippers in California from Santa Barbara to Long Beach, Santa Ana, Riverside, and San Bernardino, and extending to Barstow and Daggett. The clearing house also will handle collections in the Phoenix, Tucson, Boulder City, and Las Vegas areas.

New Military Contract for Riddle Airlines

MIAMI—Riddle Airlines, scheduled allcargo carrier, has been awarded a \$9.5 million contract by the United States Air Force to haul military cargo. Good for three years (July 1, 1956-June 30, 1959), the airline will fly freight between 20 Air Force bases in the East and Midwest. According to Peter T. Craven, executive vice president, Riddle will fly a minimum of 14½ million miles in the Logair operation.

Riddle, which recently concluded a similar contract in Logair, will be required to make 67 flights a week under the new contract. It will also operate extra sections as required. The carrier also has been participating in the Arctic DEW Line project, in addition to operating regularly scheduled flights between 30 United States and Puerto Rican points.

Minetti Joins CAB

WASHINGTON, D. C.—G. Joseph Minetti, former member of the Federal Maritime Board, was recently sworn is as a member of the Civil Aeronautics Board. His term of office will expire December 31, 1961. A resident of Brooklyn, N. Y., Minetti is a former Commissioner of the Department of Marine & Aviation of the City of New York. In 1950 he served as executive assistant to the Deputy Mayor of the city, and for the next three years held the post of Commissioner for the Board of Transportation.

West Germany in ICAO

MONTREAL—The Federal Republic of Germany has become a member of the International Civil Aviation Organization. Admission of West Germany makes it the 68th member state of ICAO.

\$5½ Million Cargo Center Is Dedicated at Idlewild

NEW YORK—Reputed to be the biggest and most modern facility of its kind in the world, the new \$5½ million International Air Cargo Center, New York International Airport (Idlewild), was formally dedicated late last month. The center is composed of a total of five buildings, four of which will be occupied by airlines and the other by various types of services, including freight forwarders, customs brokers, bonded warehousemen, and cartage companies, Located on an 80-acre

site with parking aprons and truckloading platforms to permit the simultaneous loading and unloading of 20 aircraft and more than 100 trucks, the five cargo structures have a combined floor area of 309,000 square feet.

At the dedication ceremony, Donald V. Lowe, chairman of the Port of New York Authority, pointed out that in 1949, the airport's first full calendar year of operation, it handled slightly more than 9 million pounds of air cargo. In 1955 the total had increased to over 106 million pounds, an elevenfold increase in a half-door wars.

"The importance of air cargo cannot be measured in terms of tonnages alone," he said. "Although future developments in all-cargo aircraft may change the picture, the economics of the situation today dictate that the vast majority of cargo

must be the compact low-weight cargo, the perishable cargo, or the priority cargo. Thus, the value of air cargo is far greater than measured by its weight."

Pointing to the "growing importance of

Pointing to the "growing importance of air cargo to the overall commerce of this great Port of New York," Lowe declared that since 1949 total collections of customs duty at airports in the metropolitan New York area rose from \$5,600,000 to \$37½ million in fiscal 1956. The latter figure represented 9½% of the total duty collected on air- and ocean-borne cargo combined.

"But despite the growth to date," Lowe added, "the air carriers have only scratched the surface of the total cargo market. There are, of course, certain commodities which are so large or so heavy in pro-

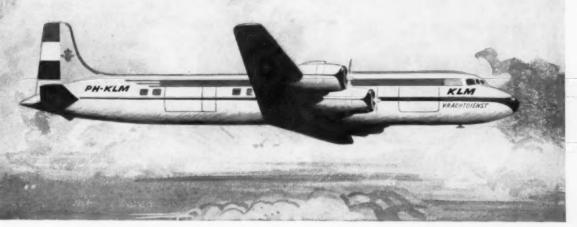
(Concluded on Page 20)



Idlewild's \$51/2 million International Air Cargo Center built by the Port of New York Authority. Covering a total of 80 acres, the center comprises four one-story buildings (80' x 750' each), and a two-story cargo service building (69,000 square feet of floor area). The new facility is the largest and most modern of its kind in the world.

PAGE 6-AIR TRANSPORTATION-Air Commerce

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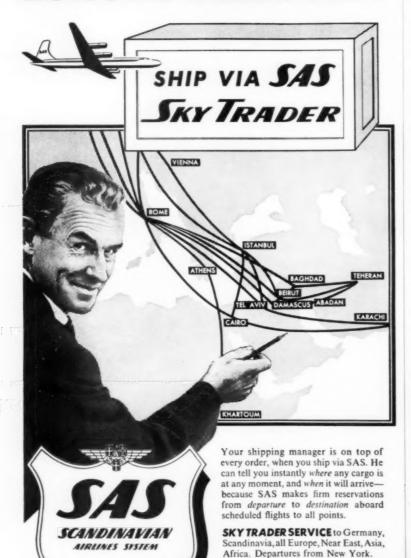
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and satisfaction-for 100% cargo control.

PAGE 8-AIR TRANSPORTATION-Air Commerce



KLM: The Dutch airline has opened links with Budapest and Sofia. Both cities are serviced from Amsterdam once a week with DC6s. Addition of the Hungarian and Bulgarian points brings the airline's

total coverage to 117 cities in 74 countries.

Air France is reported to be using a jet Caravelle on a cargo run between Paris and Algiers via Marseilles. Operations are almost daily. A twice-a-day jet schedule is expected within the next few months.

Los Angeles: The helicopter airline has opened scheduled service between Alhambra, California and the Los Angeles International Airport. Initial service is seven flights per day.

New York: The helicopter carrier

New York: The helicopter carrier serving the Metropolitan New York area has increased operations to 49 flights a day among Idlewild, La Guardia, and Newark Airports. Flights begin at 6:50 a.m. and end at 11:17 p.m.

Pan American: Last month Pan Am added a fifth round-the-world flight to its schedules. Eastbound it leaves each Wednesday from London after connecting with Pan Am's transatlantic Clippers. Stops are at Frankfurt, Istanbul, Ankara, Teheran, Karachi, Bangkok, Hongkong, Wake Island, Honolulu, and finally Los Angeles. Westbound the flight leaves Los Angeles every Tuesday, making the same stops and arriving in London where transatlantic connections are made. Pan Am terminals in the United States are at New York, Boston, Chicago, Detroit, and Philadelphia.

Panagra: The airline's DC3s operated on the route from Lima to La Paz, Bolivia, and the free port of Arica, have been replaced by DC4s. Flying time has been reduced by 45 minutes and cargo space increased 10 times. The DC4s connect at Lima with Panagra's DC-6B and DC-7B flights from New York.

Swissair: The Swiss carrier now operates eight flights a week, including a Sunday evening all-cargo flight, from New York to Zurich via Manchester and Basle.

TWA: The airline's recently announced agreement with TACA International Airlines has cut 24-hours from the air travel time between Central America and the capitals of Europe. According to Louis P. Marechal, Atlantic Region vice president for TWA, the combined TWA-TACA east-bound flights "will provide the fastest schedule available to Europe from Guatemala, Salvador, Honduras, Nicaragua and Costa Rica." TWA operates Super-G Constellations, TACA, DC4s.

Varig: Starting July 3, the Brazilian airline will increase its New York-South

Varig: Starting July 3, the Brazilian airline will increase its New York-South America service to three round trips per week. Southbound departures from New York will be on Tuesdays, Thursdays and Saturdays; arrivals, the same days.



Swissair, which has eight Convair Metropolitans on order, has increased it to 11. All the Metropolitans will be used on the airline's medium-length routes within Europe. Swissair will receive six of the transports this

Varig

Varig Airlines has purchased two (Continued on Page 10)

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PAGE 10-AIR TRANSPORTATION-Air Commerce

1649A Super Constellations from Lockheed. The Brazilian air carrier is the first South American airline to order this type of transport. Costing approximately \$7 million, including spare parts, the air-craft will be delivered between December. 1957 and February, 1958.

According to word from India, the

Indian Government is negotiating with the Soviet Union for the purchase of 14 Soviet *Ilyushin* airliners. The twin-engine transports are reportedly being made available to the Government-owned Indian Airlines Corporation at extremely low prices. The prospect of a sale is con-sidered bright. Six of the 32-passenger airliners would be for immediate delivery, the report states.



Air Express International: Officials of eight companies were the first recipients of awards for pioneering in air cargo development. The awards, Spon-sored by AEI, were presented by Charles

L. Gallo, president Club, New York. Said Gallo:

"Seldom do traffic personnel receive awards—especially for trying a new medium. But these men have performed outstanding service in the pioneering and progress of international air shipping. Through their efforts to improve shipping with faster, more efficient service, they are largely responsible for the development of air cargo and have made the largest contributions to its development.



Winners of Air Express International's first awards for pioneering in air cargo development: Left to right, front row: Robert Hanna, assistant manager of foreign traffic. Esso Standard Oil Company; John Farese, export traffic manager, Winthrop Products, Inc.; Charles L. Gallo, AEI president; C. G. Provost, manager of traffic and warehouses, International General Electric Company; J. R. Rinehart, manager of Service Division. Westinghouse Electric International Company. Rear row: J. Maurice Thibodeau, who accepted for T. J. Rainieri, export traffic manager, Charles Pfizer & Company, Inc.; Sterling E. Woodin, export traffic manager, Mack Truck, Inc.; Herbert F. Purtell, superintendent of transportation, Texas Company; Dennis McCarthy, air cargo expert, Esso Standard Oil Company; John Mangalese, who accepted for H. Heinbockel, vice president, Neuss Hesslein & Company. In addition to winning an award for himself, Robert Hanna accepted for Alonzo Smith, foreign traffic manager, Esso.

The eight firms represented started shipping internationally by air at least 10 vears ago.

An announcement made late in June by Gallo revealed AEI's establishment of through rates for air cargo shipments from New York to Moscow. The AIE president said that "the new tariffs are in anticipation of freer trade relations between the United States and Russia." Rates out of United States and Russia." Rates out of New York are: \$1.70 per pound up to and including 100 pounds; \$1.43 per pound for shipments over 100 pounds. With connec-tions in Helsinki, AEI expects third or fourth morning arrival in Moscow. In keeping with United States Government trade restrictions with the Soviet Union, shipments to that country are limited to non-strategic materials. Construction materials are not allowed.

Air-Sea Forwarders, Inc.: Erwin Rautenberg, general manager, has laid claim to being the first air freight for-warder to use the transpolar route to Europe via Scandinavian Airlines System. Consolidation setup is in Los Angeles. Air-Sea, of course, does not limit its operations to the former. Rautenberg emphasizes that his firm routes freight over all the United States and foreign air

Emery Air Freight Corp.: A Los Angeles-to-London airshipment record is claimed by Emery. Total elapsed time for a shipment of NBC's TV film, Steve Donovan, Western Marshal - from shipper's door to London Airport—was 28 hours. The film, consigned to NBC in



TV film star Douglas Kennedy (guess which one he is) turns over an advance film of Steve Donovan, Western Marshal to A. M. MacIver-Campbell, Emery veep.

London, was turned over in Los Angeles to A. M. MacIver-Campbell, Emery vice president, by Douglas Kennedy, the show's star. At the New York transfer point, where John C. Emery, vice president, and Pete George, International Division man-ager, were on hand, the shipment was given to John Murphy, of BOAC, who put it aboard the 5 p.m. flight to London. The film, which had left Los Angeles at 2 a.m. on June 1, reached the British capital at 11:28 a.m. the following day.



The Air Charter Traffic Exchange has opened a Chicago office at 7 West Mad-ison Street. Phone: Central 6-1828. Sam Conn has come from San Antonio to take over managerial reins of the Chicago office.

Bill Clark, who manages Dyson Air Freight, reports that



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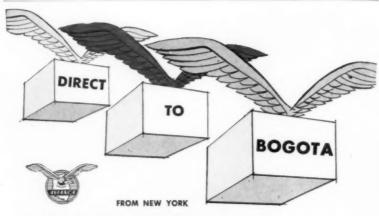
- . Daily to EUROPE via BRUSSELS
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his Charter Division is receiving "an everincreasing number of aircraft availabilities from carriers the world over." He indicated that the South American operators recently posted several southbound availabilities which are considered rare in the New York market. The southbound cargo offerings are usually restricted to two general commodity classifications, pharmaceuticals and livestock, with occasional ship's spares. Unfortunately, the dry cargo is usually available and pregnant only at a time when open leg flights are non-existent, and the cattle movements available only when passenger (convertible) aircraft are offered," And, Clark adds philosophi-cally: "C'est la vie."

Lambert Brothers Ltd., London, re-ports that "the tone of the market has fluctuated to some extent, with a fairly strong undercurrent of serious enquiry which has tended to come forward spas-modically." The firm points out that there has been greater interest in crew movements, nearly all of which are between

India and Europe.



Flying Tiger: Ten percent more air freight ton-miles were flown in April over the total in the same month a year ago. April, 1956 ended with a total of 6.458. 995 ton miles. For the first four months

of this year, a total of 23,203,726 ton-miles of freight was flown, a gain of approximately 40% over

the same period last year.

Panagra: Donald A. Huff, cargo sales manager, reports that cargo traffic during the first quarter rose 36% over the January-March 1955 period. A total of 1,006,-620 ton-miles of cargo was hauled during this time as compared with 645,488 ton-

miles in the same period of 1955.

Riddle: The all-cargo airline flew 2.798.
414 pounds of freight in April, setting a
new record for that month. Total was 58% over the 1,770,214 pounds hauled in April. 1955. Riddle also flew 52,952 pounds of charter freight during the same month. The 1,637,208 revenue ton-miles flown in April represented another high for the company.



Secretary of Commerce Sinclair Weeks has announced a list of 368 projects which will receive \$51,863,177 in Federal Aid airport funds for the 1957 fiscal year beginning July This allocation is part of a four-year

program for airport construction and improvement, the largest Federal Aid airport program in history. Important sums will be given to the airports at Atlanta. Chicago (O'Hare), Los Angeles (International), Miami, Minneapolis-St. Paul, New Orleans, New York (Idlewild), Oakland, Detroit (Wayne), Nashville, as well as airports in Alaska and Puerto Rico.

Seattle-Tacoma International Airport reports that freight handlings during the month of April were lower than in the same month a year ago. A total of 2,388,445 pounds of inbound and outbound freight was handled last April as against 2,556,170 pounds in April 1955. Express handlings, however, were somewhat higher—208.268 pounds in April 1956, compared with 199,648 pounds in April 1955.



KLM Royal
Dutch Airlines has
produced and is now
distributing its Simplified Cargo Guide.
Divided into nine
sections, the tariff is
designed to provide
as much information
as possible between
the covers of a single

book. The airline indicates that this does not spell the end to improvement. Further improvements are planned and it is expected that the information will be expanded. The nine sections of the Simplified Cargo Guide are as follows: introduction; general information; miscellaneous information; information by country; loading chart; commodity classification rates; general commodity rates; specific commodity rates; off-line destinations.



Fairchild C-119
Flying Boxcars and
C-46 Commandos
participating in Operation Sixteen Tons,
called "the biggest
airlift in the history
of the Air Force Reserve," will fly 1,000
tons of equipment to
the Caribbean area.

The operation is under the direction of Lieutenant General Charles B. Stone, III, commander of the Continental Air Command, Mitchell Air Force Base, New York.

Douglas Aircraft reports that the C-133A, in its first month of test flying, flew 10 times. Most recent flight was one of six hours and 30 minutes' duration.

The British Ministry of Supply has ordered four additional Bristol Britannias for the RAF Transport Command. This brings to 10 the number of aircraft of this type for the RAF.



The all-cargo lines, Flying Tiger, Riddle, and Slick, now have more than a month of air-mail carriage experience under their collective belt. Flying Tiger began hauling mail on May 25, Riddle and Slick following

three days later.

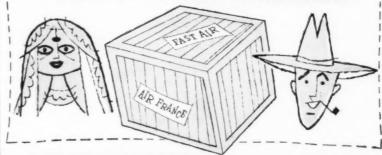
Seems that articles addressed to Taiwan, Formosa, Japan, are being received by the Post Office. Formosa, the Post Office emphasizes, is a part of Nationalist China. Articles intended for delivery in Formosa should bear the following: Taiwan, Formosa, China. Mail otherwise addressed will be returned to the senders.



A Civil Aeronautics Board decision has given Chicago its first helicopter service into and around the Loop business district, between the city's two major air terminals, and between points within a 60-mile ra-

within a 60-mile radius of O'Hare Field. The Board has

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3000 W. CLYBOURN AVENUE, BURBANK, CALIFORNIA

The AIRFREIGHT Line

authorized continuation of the experimental helicopter service in the Chicago area by Helicopter Air Service, Inc. for a period of seven years. HAS' certificate has been amended to authorize it to transport passengers in addition to property and mail.

Reports from the West Coast indicate that the Sixth Western Packaging and Materials Handling Exposition. scheduled for July 10, 11 and 12, will be the largest of these shows produced to date. Clapp

& Poliak, producers of the show, reveal that contracts for exhibit space are well above any of the previous expositions. The vast majority of the packaging exhibits leans towards increased automatic opera-

W. Vernon Swofford, package engineer of the Sefton Fiber Can Company, St. Louis, has been appointed general chairman of the Eleventh Annual Protective Packaging and Materials Handling Exposi-tion. Sponsored by the Society of In-dustrial Packaging and Materials Handling Engineers, the exposition is scheduled to be held in St. Louis on October 22-25.

United States Airlines



American: J. D. Hungerford, James H. Cobb and Wil-liam G. Whitney elected respectively as assistant vice president - schedules and tariffs, assistant vice president-advertising, and assistant president - planvice

W. Braddock Hickning and reports . ed director of economic Charles H. Harris named man appointed Cincinnati district sales manager.



Cobb Whitney Hungerford

Braniff: H. H. Murphy, Jr. and Norman Kidd named to head regional and district sales for new Eastern Sales Region with headquarters in New York City . John A. Weinhart appointed district sales manager at Austin, Texas. Flying Tiger: George T. Cussen takes

over direction of the sales staff of the contract division . . . Frank B. Lynott assumes direction of operations staff of the contract division.

Riddle: William M. Robertson named

assistant for property management to Peter T Craven, executive vice president.

United: Marshall Sherman appointed district sales manager of the Akron-Canton area . . . E. T. Connell named district sales manager at Long Beach, California
... W. J. Glennon named district sales manager at Milwaukee . . . L. E. Perry, A. W. Flinn, Lee DiSano and A. J. Weih appointed to new posts at San Francisco in the respective capacities of assistant to Newman, division superintendent-cargo sales, division superintendent-sales promotion and division superintendent-telephone and ticket sales.

Slick: Robert J. Smith elected to post of president. He is former president of Pioneer Air Lines, a member of Continental Airlines' board, and before the war executive vice presi-dent of Braniff Air-

TWA: J. Woodrow Thomas elected vice president . . . E. C. Ball appointed



to newly created position of superintendent of terminal service, Atlantic Region . . . Howard Goodrich, Jr., appointed district sales manager for Philadelphia . . M. D. Nason named district sales manager for New York.

Foreign Airlines

BOAC: Keith Granville named commermercial director.

Swissair: Melvin L. Sibulkin appointed interline sales representative for the New York area.

Indirect Air Carriers

H. G. Ollendorff, Inc.: Arthur D. Appleby, formerly assistant to the president of Airwork Atlantic, Ltd., named vice president.

Emery: Stephen J. Conway appointed manager of operations for the New York station.

Aircraft & Equipment

Babb: Geoffrey Meiss named general manager of the European and Middle Eastern Divi-



Boeing: Arthur Conway
T. Curren and A. Elliott Merrill appointed respectively manager of commercial sales nd manager of military sales.

Douglas: Donald W. Douglas, presi-

dent, chosen to receive the 1956 Elmer A. Sperry Award.

Frye: Don Marshall joined as general sales manager.

Traffic & Export

American Fixture, Inc.: P. J. Simpson appointed traffic manager, with head-quarters at the general offices in St. Louis.

American Smelting & Refining Co.: Frank L. Merwin appointed general traffic manager, succeeding D. B. Blake. Head-quarters are in New York City. Merwin formerly served as assistant general traffic manager, Kaiser Steel Corp. . . New traffic manager is George W. Cantwell.

Ford Motor Co.: Glenn R. Dunn

named traffic manager of the parts depot at Seattle.

National Electric Products Corp.: Stanley L. Vale, Jr., ex-traffic manager of the Pittsburgh Chamber of Commerce, appointed traffic manager. Headquarters are in Pittsburgh.

Morse Chain Co.: T. E. Richards,

PAGE 14—AIR TRANSPORTATION—Air Commerce

It costs Pan Am \$1,000 a day, but the airline finds it's worth it.

The Electronic

Brain Reaches Out To Air Cargo

UNEARNED TRANSPORTATIO

Pan American World Airways is spending \$1,000 a day for an amazing electronic brain which, the airline hopes, will save it \$1 million a year and eventually a total of \$10 million over a period of time.

Manufactured by the International Business Machines Corporation, the IBM 705 is the first to be installed in the transportation industry. Only four other such brains have been installed. The IBM 705 is reported to be capable of making 8,400 additions or 1,200 multiplications per second. It can process 8,000 tabulating machine cards per minute, which is 32 times faster than the speediest machines.

(Continued on Page 17)

BETTY EVANS, the young lady on the chair, looks unhappy over the prospect of going through the 50,000 sheets of airwaybills stacked on the table and floor as well as the 75,000 tabulating machine cards, some of which she holds in her hand. Edith Kramisen appears considerably more cheerful. Pan Am claims she is so because the single 10-inch reel of magnetic tape she displays contains a summary of the huge mass of airwaybills and tabulating machine cards.

THE 10 REELS OF MAGNETIC TAPE easily held by Edith Kramisen, of Pan Am's data processing center in Long Island City, represents all the information contained in the 400 trays of tabulating cards shown here. At the files are Elaine Hurley (left) and Betty Evans.

CENTRAL PROCESSING UNIT



JULY 1956-PAGE 15

What with the impact of Cinerama, Futurama, Motorama, and all the other "ramas" extant, United Air Lines has picked up the cue and presented shippers the country over with its own version of industry progress, called Cargorama. Designed to introduce its DC-6A Cargoliner (of which it has purchased a fleet of five), the flying exhibit made stands in Chicago, New York, San Francisco, Los Angeles, Cleveland, and Newark. Shippers were treated to a variety of dramatic displays and new electronic equipment pointing up the airline's efforts in

behalf of the quick, safe, and economic airlift of commercial goods—everything from tiny instruments, flowers, and baby chicks, to huge freight such as jet engines and massive containers for large quantities of wearing apparel. No small part was taken by United's cargo personnel, from the executive level down, who pitched in as demonstrators, lecturers, and general all-round goodwill ambassadors. As one shipper was overheard to remark: They really mean it, don't they?" Below are typical scenes which took place at the Cargorama showings.

Cargorama!



Don Hanson, Eastern regional claims manager for United, explains (left) various features of the carrier's freight program at the New York Cargorama.

On the West Coast, J. S. Bohmaker, vice president and general manager of the John Deere Plow Company (right).



This gigantic box (right), the largest ever made by Gaylord Container Corporation (12' long, 6'/2' high, 5'/2' wide), represents the maximum size of container that can be loaded aboard the plane.

General view of the Chicago Cargorama. Scene (left) was more or less the same in all the six cities visited by the huge flying exhibit.

In Chicago (right), representative of the airline's cargo sales department makes a few telling points with respect to plane's interior.











PAGE 16—AIR TRANSPORTATION—Air Commerce

ELECTRONIC BRAIN

(Continued from Page 15)

John S. Woodridge, Pan Am comptroller, demonstrated the amazing utility of the electronic brain at a recent press conference. Pointing to a bale of airwaybills—50,000 of them, covering one week's cargo work for Pan Am in every part of the world—Woodbridge said:

"If we can highlight different combinations of data which flood this bale, and fast, we can develop ideas to better our cargo service and our flight operations and thus our customers, our employees, and our stockholders. We unlock the information on each airwaybill by writing it down on a card with a typewriter, which does not print letters and numbers but prints holes which mean the same thing."

A stack of 75,000 cards is required to carry the data in the 50,000 airwaybills. In order to allow selection of the data, the cards must be rearranged. Under the old system, these cards had to be carried by hand to a mechanical sorter, then repeatedly moved by hand until they were in the required order. Following this, the cards were carried by hand to another machine for further processing, then by hand to yet another machine, etc.

"The machines themselves could not process the cards any faster than gears, cards and cams could run," said Woodbridge, "so the program was intolerably tedious."

"Our new procedures bypass these two immense drawbacks and put electronics to work," he added. "The constant manual handling of cards disappears, because the process is now continuous. The cards themselves disappear once their data has been written down on tape as frozen impulses, ready to be carried electrically through the machines."

The first machine, a Card Reader. receives the cards for reading into the tape. When this has been done, the cards are done away with. The tape carried only frozen impulses and not letters or numbers or symbols or holes. Therefore, the second machine, a Binary Convertor, translates the latter into impulses for the tape. The Magnetic Tape Unit, a third machine, carries the tape receiving the impulses covering the data which is to be worked on to produce that which is desired. A single reel of tape can hold all the information appearing on 60,000 cards. It can run through the apparatus in less than seven minutes.

The principle miracle, the Central Processing Unit, "electronically integrates the processing of data through its arithmetical and logical unit." Pan Am traditionally keeps close tabs on its global cargo operations. An almost limitless amount of information is required by the airline in order to provide useful and penetrating reports. By piecing together various bits of information, whether they come from Buenos Aires, London, or Johannesburg, Pan Am's sales force is given more potent weapons with which to heighten its reports.

What, for example, would such a massive report show? It would contain such information as the types of commodities airfreighted from one point to another, the most important commodities flown out of specific originating points, the commodity classification for each Pan Am division, the sales area for each commodity classification, the origin and destination for each sales area. and the revenue. The summarizing and printing of the report is accomplished on the IBM 705. The entire operation takes approximately one hour and 40 minutes of electronic brain time in contrast to the 60 hours consumed by utilizing punchcard accounting equipment. Said Pan Am:

"As a simultaneous operation, infor-(Concluded on Page 20)



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Lockheed/USAF F-104

World's Fastest Jet

The F-104 Starfighter, now in production for the U.S. Air Force, is the most advanced airplane of its type ever developed. Dimensions: height, 13 feet, 6 inches; length, 54 feet, 9 inches. Wings: knife-sharp, and only 71/2 feet from fuselage to wingtip, Engine: General Electric J79, which develops more thrust per pound of engine weight than any other turbojet of comparable size. Electronics system: new "plug-in" type, to permit quick changes and replacements of components. Pilot's seat: downward firing ejection type, the first in a production jet fighter. High, Tshaped floating tail: twice as effective in controllability as conventional tail designs. Armament and top speed: both are military secrets, but the Lockheed F-104 can overtake and destroy any plane-of any size-known today.

The Starfighter's dart-like configuration,

perfected by extensive wind-tunnel tests, permits the F-104 to flash through the sonic barrier, routinely, without a tremor. And even at supersonic speeds the *Starfighter* has unmatched ease and decisiveness of control—because never before have so many advanced design and engineering features been so superbly combined in one aircraft.

Like all Lockheed-built planes, the Starfighter has inherent "design flexibility" that makes it readily adaptable to a variety of military requirements—at lowest cost to our government.

Lockheed's leadership in the design and production of military planes, of nine widely different types, stems from its policy of close cooperation with the armed services. In the F-104 Starfighter the U. S. Air Force has the world's fastest and deadliest jet—America's "Missile With a Man in It."

Lockheed

AIRCRAFT CORPORATION

California Division, Burbank, Calif. Georgia Division, Marietta, Ga. Mussile Systems Divinion, Van Nuys, Palo Alto and Sunnyvale, Calif. Lockheed Air Terminal, Burbank, Calif. Lockheed Aircraft Service, Ontario, Calif.

LOOK TO LOCKHEED FOR JET LEADERSHIP, TOO





LOCKHEED'S NEWS COLUMN

Dick Tracy has lost his lead in the electronics race. His wrist radio is surpassed by a new "miniaturized" TV camera. Small enough to fit into a vest pocket, its "eye" is about the size of a cigarette. Built by Lockheed for research ONLY...(so far)...

Missile Mail is promised in the foreseeable future as a civilian development of missile technology. A Lockheed official says that the thousands of scientific and technical people now researching the whole environment of man in connection with missile development will produce civilian benefits beyond the imagination of the layman today. A letter by missile, of course, would get there faster than you could write the letter in the first place . . .

A Lockheed Man is working quietly in a sanctuary abroad on a nuclear engine design that will make headlines world-wide when they take the wraps off. Same man's blueprints on a nuclear contraption so startled top military authorities very early in the nation's atomic program that they locked his patent in a government vault where, for security reasons, it still remains...

Lockheed has been handed a big piece of the much-talked-about ICBMissile that will keep its Missile Systems Division scientists working nights in their new facility near Stanford University—which, incidentally, tripled in size between blueprints and ground breaking...

Beating the heat which tops 250 degrees Fahrenheit at twice the speed of sound is a matter of concern now to engineers of Lockheed's California Division who are working on methods of making airplane skin glass-smooth. Even modern, high-strength dural surfaces approach their temperature limits at these speeds...

Early America makes atomic history this month as Lockheed Georgia Division breaks ground for its new atompowered plane facility. The 10,000-acre North Georgia site was in the same family ever since the area opened for settlement in the 1840's.

ELECTRONIC BRAIN

(Continued from Page 17)

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number of shipments and the total amount of revenue that each shipper produces for us within his location, further divided as to the origin and destination of the shipments and finally the name of the Pan American office or sales agent responsible for generating the sale."

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Before the electronic brain came on the scene at Pan Am, 58 employees were required to run the machines. Now only three persons do the trick. Pan Am said that the displaced 55 were absorbed elsewhere in the com-

IDLEWILD

(Continued from Page 6)

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The cargo service building, two stories high, has been designated as No. 80. The following firms are located in this

building:
First and second floors: Air Expre

building:

First and second floors: Air Express International Agency, Inc.; Emery Air Freight Corp.; Federal Inspection Services; Hensel, Bruckmann and Lorbacher, Inc.; Mercury Service Systems, Inc.; J. D. Smith Inter-Ocean, Inc.; Airfreight Warehouse Corp.; Airport Package Service, Inc.; Anderson Express, Ltd.; Peter A. Bernacki, Inc.; Intra-Mar Shipping Corp.; Vincent T. Mancusi; Railway Express Agency Inc.; World-Wide Service, Inc.; Aerport Clearance Service; Altransport Inc.; American Express Co.; Barnett International Forwarders, Inc.; Joseph J. Boll; W. J. Byrnes & Co. of N. Y. Inc.; M. J. Corbett & Co., Inc.; R. F. Downing & Co., Inc.; Flying Freight, Inc.; Ita Furman Co.; Hedd's, Inc.; International Forwarders, Inc.; International Forwarding Co., Inc.; International Forwarders, Inc.; Pan-Maritime Cargo Service, Inc.; Penson & Co.; S. H. Pomerance Co., Inc.; H. W. Robinson Air Freight Corp.; Stern. Henry Air Corp.; Sun Transporters Inc.

The one-story buildings housing the airlines have been designated as Nos. 81, 82, 83, and 84. Following are the carriers and their locations:

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Building 81: TWA; Sabena; Pan

Building S1: TWA; Sabena; Pan
American.
Building S2: KLM; BOAC: Icelandic;
Iberia; Swissair; Seaboard & Western.
Building S3: Air France; Scandinavian; LAV: National: Argentinas:
LAI; Trans-Canada; United; El AI.
Building S4: Slick: Capital; Flying
Tiger: Northwest; Varig; Lutthansa:
Eastern; Aaxico; Riddle.
Various airlines and freight forwarding, Symaget un axibility of their air.

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mony.



(Continued from Page 14)

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The Home of the Famous Brighton Punch

Alfred A. Taxin, Pres.

as traffic manager. Headquarters are in Cincinnati.

Ray-O-Vac Co.: Oliver B. Wynn, traffic manager, elevated to the post of director of production control. He is succeeded as traffic manager by Earl L. Stevens.

Frontier Chemical Co.: Edward A. Guldaman, formerly traffic supervisor for the Paper Container Division, Continental Can Co., Newark, appointed assistant traffic manager of Frontier.

Miscellaneous

Civil Aeronautics Board: Edward E. Slattery, J. recalled from a special assignment to resume activities as head of CAB information service.

Independent Military Air Transport Assn.: Francis J. Roach designated as general manager.



The Nassau Suf-Traffic Club held its annual outclambake door the Stewart Manor Country Club, Stewart Manor, Long Island, New York, last month.

The Women's Traffic Club of New York, Inc. installed the following officers for the 1956-57 term: Dorothy Shea (American Tobacco Co.), president; Marie D'Amato (D'Amato Freight Forwarding), first vice president; Evelyn A. Tiepner (L. Sonneborn Sons, Inc.), second vice president; Edna E. Peters (Moore-McCormack Lines), recording secretary; Helene V. Swallow (Republic Carloading & Distributing Co.), corresponding secretary; Mary DeVan (J. P. Stevens & Co., Inc.); Ann C. Heyneker (Van Reekum Paper Co.) and Mabel Griffin (Chesapeake & Ohio Railroad), directors, two years; Nettie Marchuk (New York-Mid-Hudson Transportation Corp.), director, one year.

Dr. Andres Uribe C., commercial advisor to the Colombian Embassy in Washington and United States representative of the National Federation of Coffee Growers of Colombia, addressed the New England Export Club, Inc. His subject: The Patterns of Economic Progress in United States-Colombian Trade.

The Traffic Club of Chicago's Educational Committee sponsored a forum on the subject. User Charges—Are They in the Public Interest, and, If So, How Should They be Measured and Assessed? Participating were: John S. Burchmore, of Burchmore, Good & Bobinette, moderator; Bur-ton N. Behling, economist, Association of American Railroads; A. C. Ingersoll, pres-ident, Federal Barge Lines; Donald Markham, assistant general counsel, Air Transport Association; Edward V. Kiley. director, Department of Research, American Trucking Association; and Dr. George Baker, president, Transportation Association of America. John B. Palmer heads the club's Educational Committee.

Annual picnic of the Motor City Traffic Club of Detroit was held on June 30 at Rouge Park. Golf outing has been set for July 10 at the Grosse Ile Golf and Country Club.

BOOKS

The new, revised, and enlarged edition of William Green and Gerald Pollinger's The Abrenat of the World (Hanover House; 211 pages; 87.95) is currently available. This is an excellent aircraft reference manual covering in comprehensive form all aircraft types flying, regardless of age or importance. Contains a wealth of photos, three-view silhouettes, and descriptive text. This book is a must... The birth fabulous growth, and current status of the United States Air Force is the subject of General Arnold Brophy's book. The Air Force (Gilbert Press, Inc., Julian Messner, Inc.; 362 pages; \$5.00). Here is a well-rounded work which provides an ample picture of the nation's air arm. Brophy ranges all the way from the historical and statistic to the anecdote and "inside" story, Recommended . . For a guide to aircraft identification as well as descriptions of more than 240 civil and military aircraft, we suggest World Aircraft Recognition Manual John de Graff, Inc.; 269 pages; \$3.50), by C. H. Gibbs-Smith and L. E. Bradford. Contents are grouped according to wing arrange-

25th Anniversary for United's Dick Dare

CARGO-E. L. (Dick) Dare, widelyknown air cargo figure, has completed his 25th year with United Air Lines. A graduate of Knox College, Dare joined UAL as a passenger agent at Chicago in 1931. Moving up the ranks, he was one of the four men assigned to organize air cargo department in 1940. Promoted to superintendent of air express in 1946, he turned up as manager of air cargo sales in 1950. Four years later he was put in charge of the transcontinental airline's cargo development program, a job he has been handling with distinction since that

LIVE CARGO



Henry H. Trefflich (left), well-known wild animal importer in New York, and Wilfred Greenway, BOAC's United States cargo sales officer, make friends with two young orang-utans just arrived at Idlewild after a flight from India. On a recent trip, Trefflich purchased \$125,000 worth of live animals, all of it earmarked for air delivery.

ment (delta; swept; straight; rotary). Authoritative
Ian Mackersey's novel, Positions UnKnown (Henry Holt & Co., Inc.; 222
pages; \$3.00) concerns itself with the
crashlanding of an airliner on a routine hop from Sydney to Christchurch.
Down in a remote spot in the New Zealand wilderness, the resultant hardships of the survivors, the battle
against starvation, and the search form
the elements of a taut story... Psychological warfare played an all-important part in World War II. John
Baker White, whose background with
the British Political Warfare Executive
has eminently equipped him for this
(Concluded on page 23)

(Concluded on page 23)

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H. G. OLLENDORFF, INC.

CAB-Registered Air Freight Forwarders Authorized IATA Air Cargo Agent 239-243 W. 68th St., New York 23, N. Y. Phone: TRafalgar 4-0156

ELECTRONIC BRAIN

(Continued from Page 17)

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Building S3: Air France; Scandi-navian; LAV; National: Argentinas; LAI; Trans-Canada; United; El A1.

Building S4: Slick; Capital; Flying Tiger; Northwest; Varig; Lutthansa; Eastern; Aaxico; Riddle.

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CONGRATULATIONS

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Dr. Andres Uribe C., commercial advisor to the Colombian Embassy in Washington and United States representative of the National Federation of Coffee Growers of Colombia, addressed the New England Export Club, Inc. His subject: The Patterns of Economic Progress in United States-Colombian Trade.

The Traffic Club of Chicago's Educational Committee sponsored a forum on the subject. User Charges—Are They in the Public Interest, and, If So, How Should They be Measured and Assessed? Participating were: John S. Burchmore, of Burchmore, Good & Bobinette, moderator; Burton N. Behling, economist, Association of American Railroads; A. C. Ingersoll, president, Federal Barge Lines; Donald Markham, assistant general counsel, Air Transport Association; Edward V. Kiley, director, Department of Research, American Trucking Association; and Dr. George Baker, president, Transportation Association of America. John B. Palmer heads the club's Educational Committee.

Annual picnic of the Motor City Traffic Club of Detroit was held on June 30 at Rouge Park. Golf outing has been set for July 10 at the Grosse Ile Golf and Country Club.

BOOKS

The new, revised, and enlarged edition of William Green and Gerald Pollinger's The Aireraft of the World (Hanover House; 211 pages; \$7.95) is currently available. This is an excellent aircraft reference manual covering in comprehensive form all aircraft types flying, regardless of age or importance. Contains a wealth of photos, three-view silhouettes, and descriptive three-view silhausettes, and descriptive text. This book is a must... The birth fabulous growth, and current status of the United States Air Force is the subject of General Arnold Brophy's book.

The Air Force (Gilbert Press, Inc.—Julian Messner, Inc.; 362 pages; \$5.001.

Here is a well-rounded work which provides an ample picture of the nation's air arm. Brophy ranges all the way from the historical and statistic to the anecdote and "inside" story. Recommended . . For a guide to aircraft identification as well as descriptions of more than 240 civil and military aircraft, we suggest World Aircraft Recthree-view silhouettes, and descriptive craft, we suggest World Aircraft Recognition Manual (John de Graff, Inc.; 269 pages; \$3.50), by C. H. Gibbs-Smith and L. E. Bradford. Contents are grouped according to wing arrange-

25th Anniversary for United's Dick Dare

CARGO—E. L. (Dick) Dare, widely-known air cargo figure, has completed his 25th year with United Air Lines. A grad-uate of Knox College, Dare joined UAL a passenger agent at Chicago in 1931. Moving up the ranks, he was one of the four men assigned to organize United's air cargo department in 1940. Promoted to superintendent of air express in 1946, he turned up as manager of air cargo sales in 1950. Four years later he was put in charge of the transcontinental airline's cargo development program, a job he has been handling with distinction since that

LIVE CARGO



Henry H. Trefflich (left), well-known wild animal importer in New York, and Wilfred Greenway, BOAC's United States cargo sales officer, make friends with two young orang-utans just arrived at Idlewild after a flight from India. On a recent trip, Trefflich purchased \$125,000 worth of live animals, all of it ear-marked for air delivery. ment (delta; swept; straight; rotary). Authoritative

Authoritative
Ian Mackersey's novel, Positions Unknown (Henry Holt & Co., Inc.; 222 pages; \$3.00) concerns itself with the crashlanding of an airliner on a routine hop from Sydney to Christchurch. Down in a remote spot in the New Zealand wilderness, the resultant hardships of the survivors, the battle against starvation, and the search form the elements of a taut story. . Psychological warfare played an all-important part in World War II. John Baker White, whose background with the British Political Warfare Executive has eminently equipped him for this has eminently equipped him for

(Concluded on page 23)

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The numbered paragraphs below correspond with the numbers appearing in the coupon in this department. To order one or more pieces of literature, or other types of materials, at absolutely no charge to you or your firm, just encircle the corresponding number in the coupon, fill in the required information, and mail it in. Air Transportation will do the rest of the job.

184 Attractive folder on Air Express International Corp.'s new Golden Rocket Service for shippers.

185 Information on a new-type light-weight super-tough cotton canvas designed for outdoor durability. Reported to be waterproof, weatherproof, fireproof, abrasion-resistant, and flexible under all conditions

186 Air Freight Tailored to Your Needs, highlighting United Air Lines' air cargo services. Includes an interesting illustrated description of UAL's new DC-6A airfreighters.

187 Your Slick Airfreight File, a regu-tation-size folder for your file which features various types of information con-cerning Slick Airways, including company offices in various parts of the country, route map, etc.

188 Do you have packing problems? tatalog, illustrating and describing a broad line of shipping containers made of plywood, craveneer, corrugated, veneer, or sawed material in cleated, hinged, nailed, or wirebound designs. Also included are returnable containers and pallets.

189 Ask for the 12-page booklet, Your Waste. It's all about the Tickometer, an electrically operated machine which counts and (optionally) dates, codes, endorses, or otherwise imprints coupons, tickets, labels, paper, currency, checks, and many other paper items at speeds up to 1,000 a minute.

191 The Eye and the Echo, American Airlines' excellent 10-page pamphlet on the subject of weather radar in commercial airliners. Beautifully illustrated. Provides a simple, straightforward explanation of how it works and what it means to the traveling public.

192 Illustrated job study showing how new materials handling techniques helped the Packard Division of the Stude-baker-Packard Corporation to effect important economies.

193 Here's another in REA's fine series of folders describing the services and advantages of its Air Express Division. Ask for When Seeing is Deceiving.

194 How to Ship by Air in Corrugated Boxes is an exceptionally good 24-page booklet which does an effective ob pointing up the close relationship between proper packaging and air shipping. Includes a wealth of material.

195 New four-page bulletin showing features and uses of a manufacturer's overhead trolley conveyors. Illustrated and described are its applications to transportation, storage, processing, etc.

196 Information on a new-type drum ables its operator to place heavy drums on pallets with exceptional ease.

197 Information on what is described as a new idea in walkle electric trucks, designed for pallet loading. Principal feature of this new walkie truck is compactness and maneuverability.

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New Items This Month

It is the policy of the editors to retain each Come 'n' Get It item for a period of three months.

The items added this month are numbers 215 to 237 inclusive.

199 Information on a pneumatic-tired caster and a dual wheel caster—the first designed to give a shockproof ride to delicate instruments and parts; the second designed for greater load capacities.

200 Shipping and production depart-will be interested in reading about a tele-scoping bridge which is used between ad-jacent power and gravity conveyors that are lagged to the floor.

201 Descriptive literature on a new (weight 50 pounds) which can lift a 500-pound load to a height of more than four feet.

feet.
202 Brochure describing a manufacpacity ratings range from 400 pounds or
1,200 pounds per caster.
203 A handy folder spelling out TWA's
New Bargainair-Freight—deferred
air freight rates covering shipments not
released at destination until the fourth day
following shipment. Rates compete with
surface carriers. surface carriers.

204 An interesting booklet which devalue of the scheduled local airlines.

205 How to Prepak in Corrugated Boxes, a new booklet which provides helpful information in the prepackaging of products; how to cut handling, packaging and storage costs; reduce damages atc.

206 Summer edition of the Cargo Memorandum Tariff of Sabena World Belgian Airlines. Includes general and specific commodity rates.

207 A manufacturer of magnesium ma-terials handling equipment offers a new bulletin on light-weight pallet dollies.

new bulletin on light-weight pallet dollies.

208 For latest information on international air parcel post, ask for Thumbnail Guide to Simple Shipping Forms for World-Wide Air Parcel Post.

209 Latest edition of BOAC's internamodity rates are world-wide; specific commodity rates to United Kingdom only.

210 Newest revised air cargo tariff of Qantas Empire Airways.

211 Six case-history applications of the Drumpak heavy-duty corrugated container, illustrated in a new four-page brochure. Products covered include major appliances, bulk chemicals, grinding wheels, rubber hose, and textile yarns.

212 Shippers will want this copy of randum Tariff.

219 Heavite Pack for Majorem Versioners.

213 How to Pack for Maximum Instru-let which should be of special interest to shippers of delicate instruments.

shippers of delicate instruments.

214 Going on that business trip to Europe and/or the Middle East? Ask for Swissair's unusual loose-leaf folder, Stop Over with Swissair, which suggests no less than 90 routings.

215 ping catalog containing constructive ideas to help speed packaging, lower handling costs and achieve safe shipment. Includes more than 65 drawings and photos showing practical, proven steel-strapping applications.

216 New idea booklet, on unitizing, showing in 50 practical applications how steel strapping is providing faster handling of products, savings in packaging materials, etc. All unitizing ideas included in the booklet are actual photos of field-tested applications.

217 Attractive folder devoted to a de-scription of the new \$60 million Terminal City now under construction at New York International Airport.

New York International Airport.
218 4-page leaflet describing the new
international air freight services
of Emery Air Freight Corporation.
Features an explanation of its particular services and includes a list of
Emery's U. S. offices as well as a list
of foreign agency cities.

219 Comprehensive catalog, fully illustrated, which shows how steel strapping aids industry in packing, shipping, and handling various types of materials. Includes specifications.

220 Sixteen-page booklet which shows how unitizing—the process of grouping individual packages or products into a single unit—saves handling costs for shippers. Accent is on the application of steel stranning. strapping.

221 Of particular interest to airlines is this four-page illustrated case history report of how an airline improved the handling of baggage for an increased volume of traffic.

222 Here's an extremely interesting eight-page brochure which tells The Air Express Story. It's an historical piece as well as a description of Air Express's services for shippers in every part of the United States, Alaska, Hawaii, Cuba, and certain Canadian points.

223 International air shippers will be interested in this cargo time table from New York to Switzerland only. Produced by Swissair, it involves the following points: New York, Gander, Shannon, Manchester, Frankfurt, Basle, Geneva and Zurich.

224 The latest issue of Handling Materials Illustrated, which features a number of interesting articles on the use of fork lift trucks. Top feature is a story on the safe handling of extremely lethal radioactive waste.

225 How to Seal Corrugated Shipping Boxes, a 24-page booklet which outlines procedures recommended to cut losses, reduce waste, and speed up and simplify sealing methods. Both hand and automatic sealing procedures are discussed including the application of adhesives, gummed and pressure-sensitive tape, stitches, staples, and steel bands. Excellent for shippers.

226 You Are a Camera, an attractive brochure, profusely illustrated, which dramatizes Pan American World Aliways' international cargo services. Highlights the air shipment of a large variety of light and heavy freight.

227 Here's an excellent wall map of New York State which indicates the 272 landing facilities in the State. In-cludes municipal, private and commercial, military airports, seaplane bases, and heli-ports. Also gives important data on each of the airports.

228 Guide to Postmark Advertising, an fillustrated booklet which demonstrates how sales can be increased and understanding built through the "free" medium of postmark advertising. A valuable handbook for business executives.

229 Interested in chartering a helicopter? Ask for this brochure which details the new charter services of the successful helicopter airline, New York Airways. Services include the movement of emergency cargo shipments, executive transportation, etc.

230 Four-page illustrated brochure high-lighting the 3,000-, 4,000-, and 5,000-pound Hyster lift trucks on pneumatic tires.

231 The importance and procedure of pre-testing corrugated boxes is discussed in the revised edition of How to Test Corrugated Boxes. Describes and illustrates various tests which assure ample product protection in corrugated packaging. Includes a quality check chart as well as information on existing carrier regulations as they apply to the shipment of corrugated-packaged products.

232 Descriptive brochure on Raymond Corp.'s new Walkle truck which features several innovations.

233 Domestic Tariff, CAB Nos. 3 and 8, of Airborne Freight Corp.

234 International Tariff, CAB Nos. 9, 10 and 11, of Airborne Freight Corp.

235 Memo Tariff-Domestic and International, of Airborne Freight Corp.

236 Handle with Love, an interesting brochure which outlines how Seaboard & Western Airlines handles transatlantic shipments of live animals.

237 What VIC Means to You, another Seaboard & Western brochure, this one describing its regularly scheduled alleage service from the United States to Europe and beyond.

NEW EQUIPMENT

Brainard Steel Division: A new pump-type, multi-cut strapping sealer is announced by Brainard. The new Brainard sealer design permits fast, easy operation where strapping is applied in close proximity to conveyor top or floor. The bottom handle rests against the object being strapped, such as pallets, containers and skids. Sealing action is obtained by movement of the top handle supplying a multicut joint. All models operate at 90 degrees to the strap. Four models are available: SG 38 for %" strap; SF 12 for ½" strap; SE 58 for %" strap; SD for ¾" strap.

BOOKS

(Continued from Page 21)

book, takes the reader from the earliest stage of the planned deception to its successful biossoming into full-blown, morale-sapping rumor or strategic feint. White's The Big Lie (Thomas Y Crowell Co.; 225 pages; \$4.00) provides an intriguing story of the high-level fakery (not wholly confined to British) which often proves the oft-claimed point that truth is stranger than fiction. . . The renowned French filer-writer. Antoine de Saint-Exupery, is the subject of an unusually interesting biography by Maxwell A. Smith, Knight of the Air (Pageant Press, Inc., 265 pages; \$4.00). Not only has Professor Smith produced a vivid personal story and wartime exploits of the fabulous Saint-Ex, but he has coupled it with an analysis of his work. Read it.

There's plenty of brutal action in Elleston Trevor's new novel. Squadron Airborne (Macmillan Co.; 249 pages; \$3.50), which recreates the Battle of Britain with compelling force. Though not as good as his earlier effort, The Big Pick-up, Trevor does succeed in producing a realistic blood-and-swat picture of the RAF and its human components which makes the book hard to put down. . . Joe David Brown's Kings Go Forth (William Morrow & Co., Inc.; 256 pages; \$3.50) is a "war" book more on the melodramatic side than war as such. This is essentially a story of personal conflict between two artillery men—one a lleutenant, the other a sergeant—who fight their way north from Italy to Southern France. It's a hard-hitting book. If you like shockers, you're bound to go for this one . . . A highly readable account of the meteoric rise of Russian air strength may be

found in Richard E. Stockwell's Soviet
Air Power (Pageant Press, Inc.; 238
pages plus supplement; \$1.50). With
an introduction by General George C.
Kenney, the book is an expert appraisal
of the aeronautical prowess of the
Soviet Union. Despite the wealth of
technical data included, Stockwell's
book will be found interesting by the
layman. Includes photographs and silhouettes of current Russian aircraft,
including helicopters.
David C. Cooke's How Airplanes are
Made (Dodd, Mead & Co.; 72 pages;
\$1.95) is strictly for the younger set.
In photo and concise text, the author
brings the young reader through the
various steps necessary to produce a
modern jet plane. . . What happened
to the Blairs on their half-dozen voyages to different parts of the world?
Their experiences form the amusing
and informative book by Maude Hall
Blair, A World of Travel and Fun
(Dorrance & Co., Inc.; 487 pages; \$4.95).
This is the kind of travel book we'd
like to see more of . . Fast-growing
Venezuela is the subject of a timely,
well-written book by Alfred P. Jankus
and Nell M. Malloy, Venezuela: Land of
Opportunity (Pageant Press, Inc.; 259
pages; \$5.00). Business men and southbound travelers would do well to pick
up a copy. Includes considerable valuable information such as current information on imports and exports, insurance, industries, lists of American
organizations, etc. . Edward Hutton
fills a long-felt need for a book such
as he has written, Siena and Southera
Tuscany (David McKay Co., Inc.; 274
pages; \$4.50). A recognized authority
on Italian art and history, Hutton has
written an especially fine descriptive
volume of the area—the land, the
people, and its treasures.

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International Airline Cargo Rates

(including U. S. possessions and territories)

Air cargo rates quoted in this section refer only to points served direct by carriers, or by transhipment aboard aircraft of the same company. Interline agreements among most carriers enable shippers to route their cargoes via connecting airlines to nearly every part of the world. Rates are based on prevailing tariffs, airport to airport (see note).

Shippers are warned, however, that these rates are subject to change.

All international rates are quoted on an airport-to-airport service, with the pickup and delivery charges wholly apart. Air carriers whose schedules and rates are included here are indicated by the letter following the airport symbol (see below).

AIRPORT SYMBOLS

	AIRFURI	2 A IAID	JES
ANC-	-Anchorage	MEX-	-Mexico City
BAL	-Baltimore	MIA-	-Miami
BGR	Bangor, Me.	MKE-	Milwaukee
BUJ	Beaumont, Tex.	MSP-	
BOS	Boston	MOB-	-Mobile
BRO	Brownsville, Tex.	YML-	
BTV	Burlington, Vt.	MSY-	New Orleans
CHS	Charleston, S. C.	LGA-	-New York (La Guardia)
CHI	-Chicago	IDL-	New York (Idlewild)
CVG		EWR-	Newark
CLE			-Norfolk
CRP	-Corpus Christi, Tex.		Nuevo Laredo, Mex.
CTB	-Cut Bank, Mont.	OAK-	Oakland, Calif.
DAL			Omaha, Nebr.
DEN	-Denver	PUK-	
Alb	Detroit	PIA-	
	-Duluth	PHL	-Philadelphia
ELD	-El Dorado, Ark.		Pittsburgh
	-El Paso	PDX-	Portland, Ore.
	-Evansville, Ind.		Providence
FWA		YOY	Sydney, N. S.
	Fort Worth	STL	
GFK	Grand Forks, N. D.	PIE	
GRW	-Greenwood, Miss.		Salt Lake City
BDL			San Antonio
HAV	-Havana	SFO-	
HOT	-Hot Springs, Ark.		Savannah
HOU		SEA	
HNL		SHV	
IND	-Indianapolis	GEG	Spokane, Wash.
JAN	-Jackson, Miss.	SGF	Springfield, Mo.
	-Jacksonville	TPA	-Tampa
MKC	-Kansas City, Mo.	HUF	
KIN	-Kingston, Jam.	TOL	
LHD	-Laredo	YTO	
LIT	-Little Rock, Ark.		-Vancouver, B. C.
LAX	-Los Angeles	DCA	-Washington, D. C.
MEM	-Memphis		
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AIRLINE SYMBOLS

- A American Airlines
 AF Air France
 AS Aerovican Sud Americana
 AV Avianca
 B- Braniff International Airways
 BO British Overseas Airways Corp.
 BZ Brazilian International Airways REAL System
 C Colonial Airlines

- E—Eastern Air Lines

 EL—El Ai (Israel Airlines)

 II—Icelandic Airlines

 III—Iberia Air Lines of Spain

 J—Japan Airlines

 K—KLM Royal Dutch Airlines

 LI—Lufthansa German Airlines

 LI—Lufthansa German Airlines

 LV—Lineas Aeropostal Venezolana

 N—National Airlines

 NE—Northeast Airlines

 NE—Northeast Airlines

 P—Pan American World Airways and Panagra

 Q—Qantas Empire Airways

 R—Riddle Airlines

 RN—RANS

 S—Sabena Belgian Airlines

 SS—Seandinavian Airlines

 SS—Seandinavian Airlines

 SW—Seaboard & Western Airlines

 SW—Seaboard & Western Airlines

- SW-SR-T-SW Seaboard & Western Airlines
 SR-Suissain
 T - Trans-Canada Air Lines
 TA - TACA International Airlines
 TL - Trans-Canada Air Lines
 TW - Trans World Airlines
 U-United Air Lines
 V-VARIG Airlines
 W-Western Air Lines
 W-Western Air Lines

- V-VARIG Airlines
 W-Western Air Lines

SPECIAL NOTES

COMMODITY RATES: Apply to airlines

FREIGHT OVER 1,000 POUNDS-Apply to airline for

TRANSPACIFIC FREIGHT: Apply to airline for lower rates for shipments of over 440 pounds.

AF: Valuation charge is applicable only on shipments equal to or more than \$7.48 per pound.

L: Shipments of less than 22 lbs. are sent air express. T: More economical rates are offered for bulk cargo. The is a basic rate for cargoes 25 pounds and less, between pounds and 100 pounds, and over 100 pounds. Consult it aritine direct.

TG: Cheaper "deferred" rate available. Contact airli

RATE SYMBOLS

- ** This involves onward carriage by another airline.

 ** Per \$100 (Canadian Currency) value, pro-rata.

 2 Minimum charge for this shipment is that for 25 lbs.

 ** Rate of 25 lbs. or less.

 ** Minimum weight 50 lbs.

 ** Per bundredweight.

 ** Minimum charge per shipment \$3.00.

 ** Minimum charge per shipment \$4.00.

 ** Minimum charge per shipment \$7.00.

 ** Minimum charge per shipment \$8.00.

 ** Canadian Currency.

 ** Onaly freighter service.

 ** Minimum charge under 100 lbs.

 ** Minimum charge under 100 lbs.

 ** Minimum charge under 100 lbs.

 ** Truck to Miami.

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	6	IDL SR IDL AF	1.17			Dly
	44	BOS AF	1.15	.86	30	
	66	CHI AF	1 22	.93	40	
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		BOS BO	2.09	1.57	25	Dly
	4	YML BO IDL SR	2.10	1.58	40	Su,T,F
	A TV		2 40	1.40	40	
	Asuncion, Paraguay	BRO B CHI B	1.49	1.12	40	M
	4	CHI B	1.49	1.13	.40	M
	at a	DAL B	1.50	1.13	.40	M
	4	FTW B	1.50	1.13	.40	M
	44	HOU B	1.49	1.12	40	M
	es .	LRD B	1.55	1.12	.40	M
	4	MIA B	1.39	1.04	.40	M
		SAT B	1.50	1.13	.40	M
	4	MIA BZ	1 20	0.5	40	T,Th,Sa Su,T,Sa
		IDL P	1.47	1.11	.40	Su, T, Sa
		HOU P	1.49			M
	4	LAY D	1.49	1.12	.40	T.Th
	4	MIA P	1 30	1.05	40	Su.M.Th
	4	MSV P	1.39	1 10	-40	Th,Sa
	Athens, Greece	HOU P BRO P LAX P MIA P MSY P	1 60	1.10		
		BOS LI	1.58	1.20	.40	M,W
	4	IDL BO	1.60	1 20	-863	Dly
	4	AMP RO	1.56	1.17	40	
	a .	BOS BO	1.58	1.17	.40	Dly Su T W F
	4	TENT AT	1.60	1.20	40	
	4	HOS AF	1 50	1.19	40	Sa
		CHI AF	1.66	1.20	40	W.Su
	4	YML AF	1.00		.40	W,Su Su,M,W,Th,
		IDL K		1.20	.40	201 M. W. 1 h.

(Un-Lbs.)

Per Lb. (U der 100 Lb Per Lb. (O-100 Lbs.) Per \$100 Value

and Airline

Depart

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Destination	Airpor and Airline		der 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Un- der 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart
Aalborg, Denmark	IDL S		1 24	93	40	Dly Dly	Ajaccio, Cornica	IDL AF BOS AF	1.27 1.26	.96 .95	.40 .40	Dly except Sa Sa
Abadan, Iran	IDL 8 BOS B YML B	0 1	2 00 1 99 1 96	1.51	40	T,Th	Albertville.	CHI AF YML AF IDL 8	1 .33 1 .24 2 .19	1.01 .93 1.64	.40 .40 .40	W,Sa W,Sa Th,Sa
a Abidian, Ivory	IDL B		2.00	1 47 1 51 1 37	40 40	T.Sa,M,W	Belgian Congo Aleppo, Svria	YML AF	1.75	1.32	40	
Coast	BOS A	F	1.88	1 36	40	Sa W,Sa	Alghero, Italy	IDL LI BOS LI	1.47 1.45	1.10	.40	Dly M, W
Accra, Br. Gold	YML A		1.79	1.34	40	W,Sa Th	Algiera, Algeria	IDL AF BOS AF	1.33 1.33 1.32	1.00 1.00 0.98	.40	F Dły
Const	BOS P		1.81 1.88 1.81	1.36 1.42 1.36	40 40 40	Th Th Th,Sa	4	CHI AF	1.39	1.05	.40 .40 .40	Sa W,Sa W,Sa
<i>G</i>		30	1.83	1.37	40	Dly		CHI TW	1.39	1 05	.40	T F
6 8	BOS A	F	1 83 1 81	1.37	40	M.Th Sa		MKC TW LAX TW IDL BO	1.46 1.60 1.33	1.11	.40 .40 .40	F Th
6	YML A		1.88	1.42	40	W,Sa W,Sa	-	BOS BO YML BO	1.32	.98	40	
Addis Ababa, Ethiopia		30	2 25 2 24 2 21	1.69 1.68 1.66	.40 .40	Dly Th,Sa	Aleppo, Syria	IDL AF BOS AF	1.79	1.34	.40	T,Th,Sa Sa
Aden, Aden	IDL E	30	2.24	1.68	.40	Dly Th.Sa	Amman Trans Jordan	BOS BO YML BO	1.79	1.34	.40	
Ahmedabad, India	YML E	30	2 26	1.70	40	Dly	Amsterdam, Neth	IDL SR	1.75 1.79 1.17	1.31	.40 .40 .30	T,W,Sa Dly except 3
s		30	2.46	1.86	40	Diy	a s	IDL BO BOS BO	1.17	.88	.30	Dly except S Th.Sa

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Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Por \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart
Athens (Cont'd)	YML K IDL EL IDL SS LAX SS IDL TW CHI TW MKC TW MKC TW BOS TW IDL SR IDL	1 56 1 60 1 60 1 66 1 62 1 73 1 58 1 60 2 04 2 04 2 04 2 04 2 04 2 05 3 91 3 89 2 25 2 04	1 20 1 53 1 53 1 53 1 53 2 93 2 92 1 72 1 53 1 53	.40 .40 .40 .40 .40 .40 .40 .40 .40 .40	Su, Th, F T, F, Sa T, F, Sa W, W, Sin 9 Weekly 10 Weekly 9 Weekly 9 Weekly 9 Weekly F Su, T, F Dly ex, M, W Su, W, F Su,	Bangkok (Cont'd)	IDL AF BOS AF CHI AF YML AF	2 91 2 95 2 91 2 95 2 91 2 25 2 95 2 95 2 91 2 71 2 71 2 93 2 17 2 91 2 36 2 90 2 15 2 05 2 18 44 37	2 18 2 21 2 18 2 22 2 20 2 21 2 21 2 21 2 21 2 21 1 96 2 19 1 77 1 50 1 53 1 62 1 53 1 64 3 3 29	40 40 27 40 40 40 40 40 40 40 40 40 40 40 40 40	Dly W,Sa T,Th,Sa Su,W,Th,F,Sa M,W,F M,W,F M,W,F M,W,F M,W,F T T Sa Sa W,Sa Su,Th Dly Dly Dly W,Sa	Basta, Corsica	IDL K YML K BOS BO O YML BO IDL BO IDL BO IDL BO IDL TW PHL TW PHL TW LAX TW IDL SR IDL AF YML AF CHI AF YML AF CHI AF YML AF CHI AF YML AF	2 01 1 92 1 99 1 97 2 01 1 1 99 2 01 1 2 03 2 07 2 14 2 28 2 28 1 33 1 24 2 09 2 07 2 12 5 09 2 07	1 51 1 44 1 50 1 48 1 51 1 51 1 50 1 50 1 52 1 56 1 62 1 76 1 51 96 96 93 1 56 1 55 1 01 93 1 56 1 55 1 55	40 40 40 40 40 40 40 40 40 40 40 40 40 4	T, W Su Th, Sa W W Su, T Su, Su, Su, Su, Su, Su, Su, Su, Su, Su,
Baghdad, Iraq	BOS BO IDL BO YML BO IDL K YML BO IDL K IDL SS IDL AF BOS AF YML AF BOS AF YML AF HOL EIL IDL SR IDL AF ENDL P BOS P CHI AF IDL P BOS P CHI AF IDL EIL IDL SR IDL SS MIA P MOU P BOS BO YML BO	2 0 94 93 3 916 3 899 3 899 3 891 3	2 92 2 93 2 90 2 91 1 53 3 1 78 2 91 1 7 1 1 54 6 1 1 7 1 1 1 4 7 6 1 1 1 4 7 6 1 1 1 4 7 6 1 1 1 4 7 6 1 1 1 4 7 6 1 1 1 4 7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	400 400 400 400 400 400 400 400 400 400	Su Th.Sa Dly M.W.F. M.W.F. M.W.F. M.W.F. M.W.F. M.W.F. Dly Su,T.W. Sa. W.Sa. W.Sa. W.Sa. Su,T.F. T.W.Th.F.Sa. Dly Dly W.Ss. Su,T.F. Su,T.W.Sa. M.T. M.T. M.T. M.T. M.T. M.T. M.T. M.	Barcelona, Venezuel	IDL AF BOS AF CHI AF YML AF IDL BIDL P BOS P CHI P LAX P SFO P IDL SR IDL SS LAX SS IDL BO YML BO BOS BO BOL K	.490 1.27 1.25 1.22 1.27 1.27 1.27 1.27 1.27 1.27 1.27	377 95 95 94 1 00 92 95 95 95 95 1 1 21 1 20 95 95 95 95 95 95 95 95 95 95 95 95 95	20 40 40 40 40 40 40 40 40 40 40 40 40 40	Sa, T.F. Sa W. Sa W. Sa W. Sa W. F Th, Sa T. Sa T. Sa T. Sa T. Sa M.F Dly Th, Sa M.F Dly	Belgade, Yugoslavia Belize, Br. Hond	YMIL AF MIA P IDL AF BOS AF CHI AF YMIL AF IDL SS LAX SS IDL S IDL P BOS P PHIL P LAX P LAX P IDL BO IDL S IDL P MSY P HOU P BRO P HOU P BRO P IDL S IDL B IDL S IDL B IDL S I	14 1 75 1 1 1 1 7 1 1 1 7 1 1 1 7 1 1 1 1	11 1 32 1 33 1 34 1 34 1 34 1 34 1 34 1	40 10 40 40 40 40 40 40 40 40 40 40 40 40 40	T,F Dly Th,Sa Th Su,T,Th,F M,W T,Sa T,Sa
Pangkok, Siam	PDL PPDX PPDX PEAX PBOS PPHL PSFO PIDL SS LAX SS IDL AF CHI AF YML AF TIDL BO BOS BO	2 93 2 777 2 777 2 93 2 26 2 777 2 95 3 22 2 96 2 84 2 92 2 93 2 93	2 08 2 08 2 08 2 20 2 03 2 08 2 21 2 47 2 15 2 13 2 20 2 13 2 21	40 40 40 40 40 40 40 40 40 40 33	Dly M,T,W,F M,T,W,F Dly ex. M,Th Dly ex. M,Th T,Th,Sa T,Th,Sa Sa Sa W,Sa W,Sa W,Sa Dly Th,Sa	Basankusu, Belgian Congo Basle, Switzerland.	MIA K YML K YML BO IDL SR IDL BOS BO IDL AF BOS AF CHI AF YML AF LAX SS IDL SS	39 54 54 2 25 1 24 1 24 1 22 1 20 1 24 1 22 1 30 1 20 1 51 1 24	.29 41 41 1 69 .93 .92 .90 .93 .92 .98 .90 .93 .92 .98 .90	.15 .20 .40 .40 .40 .40 .40 .40 .40	M,F F Su,Th Dly Dly Th,Sa	Bello-Horizonte, Brazil	PIE AS MIA TN IDL P MIA P MSY P HOU P BRO P LAX P SFO P MIA BZ IDL BZ IDL AF BOS AF VML AF	25 20 1.65 1.44 1.56 1.77 1.70 1.99 1.57 1.28 1.44 2.09 2.07 2.15	1 .44 1 .56 1 .77 1 .70 1 .99 1 .17 .86 .97 1 .56 1 .55	.20 .10 .10 .40 .40 .40 .40 .40 .40 .40 .40 .40 .4	Dly M,Th Dly Dly Dly Dly Su,T,FI Su,T,W,Sa Su,T,W,F T,Th,Sa



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Bergen, Norway Berlin, Germany Berlin, Germany Berlin, Germany Bermida Berme, Switzerland Bitan, F.E.A. Blantyre, Nyasaland Bloomfontein, So. Africa Bobo, Dioulasso, Fr. W. Afr.	BOS BO YML BO IDL. SS LAX SS IDL BO BOS BO YML BO IDL LH IDL AF BOS P IDL LH IDL AF BOS P IDL SR IDL SS IDL BO BOS BO IDL LH IDL AF BOS P IDL SR IDL	.20 .25 .20 .24 1 .24 1 .20 1 .22 1 .24 .05 1 .06 1 .08 2 .09 2 .07 2 .15 2 .13 2 .11 2 .24 2 .22 2 .20 1 .78	1.60 1.58 1.68 1.66 1.65	400 400 400 400 400 400 400 400 400 400	Dly	Bobo (Cont'd) Boende, Bel. Conge Bogota, Colombia Bombay, India Bonaire, N.W.L. Bone, Alg. Bona, Germany Bordeaux, France Bouake, F.W.A. Bouar, F.E.A. Brazzaville, Fr. Eq. Af.	MSY P HOU P HOU P BRO P LAX P SFO P	2 51 2 53 2 64 2 78 30 30 1 33 1 1 28 1 21 1 23 1 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	22 1 00 97 91 98 99 92 91 98 99 92 91 1 36 1 42 1 42 1 61 1 66 1 5% 1 56 1 56	20 40 40 40 40 40 40 40 40 40 40 40 40 40	W.Sa W.Sa W.Sa W.Su, W W.Th.Sa Su, T.W.Sa Su, T.F.F T.F.F T.F.F T.F.F T.F.F T.F.Sa Su, T.Su,	Brazzaville (Cont'd) Bremen, Germany	IDL. BO BOS BO SO YMI, BO OYMI, BO OYMI, BO OYMI, BO OYMI, BO IDL. BO BOS BO OYMI, BO IDL. BO BOS BO OYMI, BO IDL. P BOS P IDL. BO F IDL. BO F IDL. AF OYMI, AF IDL. AF CHI AF CHI AF CHI AF CHI AF CHI AF CHI AF IDL. SS IDL. BO IDL. SS IDL. SS IDL. BO IDL. SS IDL.	° 1 61	45 58 1 22 1 20 1 22 1 21	30 40 40 30 30 30 30 30 30 30 20 20 20 30 40 40 40 40 40 40 40 40 40	W.Sa Sa Dly Dly Dly Dly Dly Su.Th.F.Sa Dly Sw.Sa Dly Su.W.Th.Sa Su.W.Th.Sa Su.W.Th.Sa Su.W.Th.Sa Dly Dly Dly Dly Dly Dly Su.W.Th.Sa



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Destination Bucharest (Cont'd)	and Airline	Per Lb. (Under 100 Lbs.)		Depart 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100	Depart
Budapest, Hungary. Bumba, Bel, Congo. Buenos Aires, Argentina Bulkavu, Bel, Con. Bulkavu, Bel, Con. Bulkavu, Bel, Con. Cairo, Egypt. Caibarien, Cuba. Cairo, Egypt. Line Bulkavu, Bel, Con. Bulkavu, Bulkavu, Bel, Con. Bulkavu, Bel, Con.	YML T IDL AF* BOS AF* BOS AF* CHI AF* YML AF* IDL K YML AF* IDL BOS AF* IDL F IDL P MIA P HOU P BRO	$\begin{array}{c} 1.47\\ 1.36\\ 1.36\\ 2.09\\ 0.20\\$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 II Weekly 0 IO W	Camaguey, Cuba Campeche, Mexico """ Cannes, Son., Mer Canton Island "" Capetown, U. S. Af "" Caracas, Venezuela Cartagena. Colombia "" Casablanca, Fr. Morocco "" Cat Cay, Bahamas Catania, Italy Catania, Mexico "" Cayonne, Fr. Guiana "" Cayonne, Fr. Guiana "" Chittagong, Pak "" Chittagong, Pak "" Chittagong, Pak "" Cochabamba, Morway "" Cochabamba, Bolivia "" Cologne, Germany "" "" "" "" Cologne, Germany "" "" "" "" "" "" "" "" "" "" "" ""	MIA P MSY P HOU P BRO P S. MEX L LAX P SFO P PDX P SEA P YVR Q IDL BO BOS BO	566 563 565 565 69 1.24 61.32 2.26 1.26 1.27 1.20 1.26 1.27 1.20 1.27 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	36, 2 05 2 05 2 05 2 05 2 05 2 05 2 05 2 0	200 300 100 100 200 100 100 100 100 100 100 1	Su,T,F, Su,T,W,Sa Dly Su,T,T,W,Sa Dly	Concepcion, Bolivia. "" Copenhagen, Den "" Copenhagen, Den "" "" "" "" "" "" "" "" "" "" "" ""	ML BO DL P IIA P SY P OU P RO P AX P IIA BZ DL BO DL BO OS BO ML BO DL P DL AF DL AF HI AF	1.19 1.27 1.121 1.47 1.28 2.64 2.264 2.266 1.53 1.161 1.68 1.17 1.61 1.68 1.17 1.61 1.68 1.17 1.24 1.20 1.24 1.21 1.24 1.21 1.24 1.22 1.24 1.30 1.24 1.31 1.24 1.31 1.39 1.39 1.39 1.39 1.39 1.39 1.39	. 89 . 96 . 91 . 1 69 . 1 1 98 . 1 1 99 . 1 1 99 . 1 1 99 . 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30 400 400 400 400 400 400 400 400 400 4	Dly



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	Airport A S							(\$	RATES ee Note)				RA (See	Note)	_	
Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbe.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart
akar (Cont'd) amaseus, Syria ares-Salaam, Tananyika arwin, Australia. arwin, Austr	PHL, P BOS P CHI P LAX P LAX P LAX P LAX P LOL AF BOS AF CHI AF YML AF IDL, BO BOS BO IDL S LAX SS IDL S IDL	1.45 1.43 1.41 1.42 1.42 1.42 1.42 1.42 1.72 1.77 1.85 1.79 1.77 1.85 1.79 1.77 1.85 1.79 1.77 1.85 1.79 1.77 1.85 1.79 1.77 1.85 1.79 1.77 1.85 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79	1 08 1 108 1 108 1 108 1 108 1 108 1 108 1 108 1 109 1 107 1	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Su, T T Sa W, Sa Dly	Gander, N. F	MIA P MSY P HOU P BRO P LAX P HOU P LAX P HOU P LAX P HOU P LAX P LOIL AF R SO AF CHI AF YML AF T HOL AF T H H H H H H H H H H H H H H H H H H	26 26 2 26 2 26 2 26 2 26 2 26 2 26 2	22 22 161 1.61 1.61 1.61 1.61 1.61 1.61	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Dily except T Dily except T Dily except T Dily Dily except M N Su,Th,F Dily M,W Dily Dily except M Dily 17 Wkly 17 Wkly 17 Wkly 17 Wkly 17 Wkly 17 Wkly 18 Wkly 19 Wksa Wsa Wsa Wsa Wsa Wsa Wsa Wsa Wsa Wsa W	Haifa, Israel Haifax, N. S Hamburg, Germa	BOS BO YMIL BO IDL SS LAX SS IDL S IDL S IDL P IDL P IDL P IDL P IDL BO IDL SS	1. 22 1 1 24 1 1 1 1 24 1 1 20 1 1 24 1 1 20 1 1 24 1 1 20 1 1 24 1 1 20 1 1 24 1 1 20 1 1 24 1 1 20 1 1 20 1 1 20 1 1 20 1 20	92 90 90 90 91 183 92 90 90 90 90 90 90 90 90 90 90 90 90 90	40 30 40 40 40 40 40 40 40 40 40 40 40 40 40	Dly T.Th.Sa T T Dly Su.T.Th Dly M.W.Sa Dly M.W.Sa Dly W.Sa Dly W.Sa Dly W.Sa Dly W.Sa Dly W.Sa Dly Dly W.Sa Dly

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Hamilton (Cont'd) Hanover, Germany Havana, Cuba Havana,	BOS BO YML BO JOL SS JOL LH JDL SS JOL LH JDL K YML K JDL SS JDL LH JDL SS JDL LH JDL SS JDL LH JDL SS JAX	200 255 254 25 25 25 25 25 25 25 25 25 25 25 25 25	10 119 115 15 16 16 16 16 16 16 16 16 16 16 16 16 16	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Dly W.Sa Su,F.Sa Dly N.T.Th,F.Sa Dly except Sa Su,Th,F Dly	Hong Kong (Cont'd Honolulu, T. H Innebruck, Austria Innogo, Bel. Congo Ipuales, Colombia Irumu, Bel. Congo Istanhul, Turkey Jakarta, Java Jakarta, Java	SFO J IDL NW YIP NW CHI NW MSP NW MSPA NW MSEA NW MKE U LGA U	2 72 2 688 2 544 2 781 711 711 711 711 711 711 711 711 711	2 44 91 22 42 1 91 22 05 4 1 1 91 1 91 8 2 2 05 1 1 91 1 91 8 8 93 5 77 77 77 77 77 77 77 77 77 77 77 77 7	400 400 400 400 400 400 400 400 400 400	W.Sa Su.T.Th.Sa M.W.F M.W.F M.W.F M.W.F M.W.F M.W.F M.W.F Dly	Jeddah (Cont'd) "" Jerusalem, Israel (S Jibuti, Fr. Somaliland Joao Pessoa (Cabadello) Johannesburg. U. of So. Africa "" Juneau, Alaska. Kabalo. Kabalo. Kabalo. Kaduna, Nigeria. "" Kalima. Kamaran, Aden Colony Kamina. Kamaran, Aden Colony Kamina. Kano, Nigeria. "" Karachi, Pakistan. "" "" Kasango. Kefhavik, Iceland. "" "" Kethikan, Alaska. Kasango. Kefhavik, Iceland. "" "" "" Kasango. Kefhavik, Iceland. "" "" " " " " " " " " " " " " " " " "	BOS BO IDL SR SFO J IDL J IDL J IDL J IDL BO IDL SS IDL BO SFA P IDL SO IDL SS IDL BO IDL SC IDL BO IDL SS IDL	1 99 2 00 2 91 2 00 2 92 00 3 art] 2 18 2 15 2 2 2 1 1 83 3 1 . 81 1 . 79 9 1 . 74 1 . 83 1 . 81 1 . 79 9 1 . 74 1 . 83 1 . 81 1 . 89 1 . 79 9 1 . 74 . 83 1 . 81 1 . 89 2 . 2 17 . 83 2 2 2 17 . 83 3 1 . 81 1 . 89 2 2 2 3 2 2 2 3 2 2 2 3 2 2 3 3 3 3 3	1. 49 1. 515 2. 18 1. 51 1. 51 1. 51 1. 51 1. 51 1. 51 1. 51 1. 51 1. 61 1. 61	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Dly Th,Sa Su,T,W,F,Sa Sa,W,Sa W,Sa W,Sa Su,T,Th,Sa Su,T,Th,Sa Th T T.Th Th Dly Dly Dly Th,Sa T.F

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		(See Note)						(\$	HATES iee Note)					(See Note)			_	
Destination	Airport and Airline	Per Lb. (Un- der 106 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	
hartoum (Cont'd) gali kwit mberley, So. Afr. andu, Belg. Congo mk Williamstown, So. Africa andu, Jamaica andu, Jamaica andu, Jamaica anduwexi congolo corhogo, F.W.A anduwexi congolo curnassi, Gold Coast anduwexi anduw	BOS BO YMI, BO DIDL S IDL BO BOS BO YML BO MIA P MIA R IDL BO MIA P MIA R IDL BO MIA P MIA R IDL BO MIA P MIA BO YML BO YML BO YML BO YML BO YML BO YML BO TOL BO BOS AF YML BO TOL BO T	2 09 2 07 2 14 4 2 05 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 56 8 1 55 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Su, M, W, Th, F M, W, F, Su T, Th, Sa Th, Sa Sa W, Sa	Leopoldville (Cont'd Leibridge, Alb., Canada Libenge, Bel. Con. Libreville, F.E.A Lima, Peru Lima, Peru Lima, Belg. Congo Lisbon, Portugal Liverpool, England Livingstone, S. Rhodesia Lome, Fr. W. Afr.	BOS BO IDL K IDL T CTB W IDL S IDL AF BOS AF CHI AF BOS BO IDL L T T T T T T T T T T T T T	2 15 2 2 3 3 2 2 15 2 2 15 3 2 2 2 15 3 2 2 2 15 3 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	1. 60 1. 60 1. 60 1. 60 1. 20 20 20 20 20 20 20 20 20 20 20 20 20 2	40	ly h LW.F a Sa a Sa ly ly ex. M.F ly ex. M.F ly ex. T.F L.T. Sa u.T.W.Sa L.T. W.Sa L.T. W.Sa L.T. L.T	Lusaka (Cont'd) Luxembourg, Luxembourg, Luxembourg Lydda, Israel (See Maceio, Brazil Madrid, Spain Madrid, Spain Madrid, Spain Manague, Colombia Malia Managua, Nicaragua Managua, Managua, Managua, Managua, Managua	IDL. P MSY P HOU P BRO P LAX P IDL V BRO P LAX P IDL V LAX P IDL V BRO P LAX P IDL BO BOS BO YML BO IDL BO ROS BO YML BO IDL S IDL S LAX SS IDL SR IDL S LAX SS IDL SR IDL S IDL S IDL S LAX SS IDL SR IDL S	2 13 2 11 1 2 1 1 2 2 1 1 1 2 1 1 2 2 1 2 1	1.60 1.58 91 1.52 1.56 1.56 1.58 1.56 1.58 1.56 1.58 1.56 1.58 1.56 1.58 1.56 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.58	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Dly T.W.Th Su,Th Su,Th Su,Th Su,Th,Sa Su,W.Th,Sa Dly Dly Dly Th,Sa W.Sa W.Sa W.Sa W.Sa W.Sa W.Sa W.Sa W.	
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		PA	ATES	ES Note)		ERNATIONAL A		R	ATES e Note)							
Destination	Airport and Airline	(See	Note)			Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.) Per \$100	Depart	Deetination	Airport and Airline	Por Lb. (Un- der 100 Lbs.)	Per Lb. 190 Lbs. Per \$10		Depart
Manta (Cont'd) Manzanilla, Cuba Marcaibo, Venezuela Maroua, F.E.A. Marseilles, France Mattinique, Fr. W. Ind. Mattail, Belgian Mayajigua, Cul Masadian, Mex Medan, Sumatu Medellin, Colo Merida, Mexico Mexico City, Mexico	MILA P MSLY P MSLY P BROY P B	74 S7	56 6 56 6 56 6 56 6 6 6 7 7 3 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8	20 M 30 Su 10 Diy 20 Diy 20 M, 20 M, 20 M, 20 M, 20 M, 20 M, 21 Diy 20 M, 20 Diy 20 M, 20 Diy 20 M, 20 Diy 20 M, 2	V.Sa F.F. Th.Sa T.W.Sa F. K.Sa T.W.Sa F. K.Sa Sa Sa Sa Sa Dly Dly Dly L.T.Th J.T.Sa Sa J.T.Sa Sa J.Sa J.T.Sa J.Sa J.Sa J.Sa J.Sa J.Sa J.Sa J.Sa J		YML BO YML BO YML BO IDI LI IDI LA F ID	1.15	111 .11 .28 2 2 30 1.00 4 4 1.00 1 1.00 1 1.00 1 1.00 1 1 1 1 1 1 1	Dly Dly Dly	Nairobi, Kenya Naples, Italy. Nassau, Baha	CHI A YML S IDL S	272 222 1.54 1.53 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.4	400 400 400 400 400 400 400 400 400 400	M, W, F, Sa T, W, T, Th, F, Sa T, W, T, Th, F, Sa T, W, Th, F, Sa T, W, Th, Sa T, Sa T



			RATES ee Note)							(\$	RATES Be Not	8)				
Destination	Airport and Airline	Por Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart
atal (Cont'd) attitingou, F.W.A. Dola, N. Rhodesia Gaoundere, F.E.A. iamey, Fr. W. Afr. ice, France come, Alaska corresping, Sweder orth Bay, Ont., Canada owners, New Caledonia general of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva Ocotepeque, Vuremberg, Germany and Control of Pinero, Cuba reuva reu	IDI. BO BOS BO SON BO S	1.80	1.80 1.87 1.86 1.37 1.86 1.36 1.36 1.36 1.36 1.36 1.36 1.36 1.3	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Dly F Sa W,Sa W,Sa W,Sa Dly M,W,F T,Th,Sa Dly Dly Su,Th,F M,T,Th,F,Sa Dly	Pisa, Italy Pointe a Pitre, Gu Pointe Noire, F.E. Ponce, R. R Port au Prince, Haiti	BOS BO YML BO YML K IDL LI IDL BI BOS LI IDL AF FOR MSY P HOU P BOS AF CCHI AFF YML AF HOU P HOU P BOS AF CCHI AFF YML AF HOU P HOU P BOS AF CCHI AFF YML AF HOU P	1 294 1 297 1 297 1 83 1 81 1 83 1 81 1 83 2 81 1 83 2 81 1 83 2 81 1 83 2 81 1 83 2 81 1 83 2 81 1 83 2 81 1 83 2 81 1 83 2 81 2 81 3 93 3 93 3 93 3 93 3 93 3 93 3 93 3 9	90 93 93 95 95 96 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97	30	23 Wely Th.F.Sa 24 Wely 23 Wely 24 Wely 24 Wely 24 Wely 25 Wely 26 Wely 26 Wely 26 Wely 26 Wely 27 Wely 27 Wely 28 Wely 29 Wely 29 Wely 20 Wely 20 Wely 20 Wely 20 Wely 21 Wely 22 Wely 23 Wely 24 Wely 25 Wely 26 Wely 26 Wely 27 Th.Sa 26 W.T.Th.Sa 27 W.Th.F.Sa 28 W.W.F. 26 W.T.Th.Sa 27 W.T.Th.F.Sa 28 W.W.F. 29 W.W.F.F.Sa 20 W.T.Th.F.Sa 20 W.T.Th.F.Sa 20 W.T.Th.F.Sa 20 W.T.W.Th.F.Sa 30 W.T.Sa 30 W.T.Sa 30 W.T.Sa	Rabat, Fr. Mor Rangoon, Burma Recife (Pernambu Brazil	YMIL T° IDL BO YMIL BO BOS BO IDL P BOS BO IDL P BOS P 6. MSY TA MEX TA	2 35 2 23 36 2 2 2 1 1 2 2 2 2 1 3 3 2 2 2 1 1 1 94 5 4 5 4 8 8 4 5 5 5 5 5 5 5 5 5 5 5 5	1 765 1 775 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# 40 40 40 40 40 40 40 40 40 40 40 40 40	Su, T. Th Dly Th, Sa Su, T. F W. Sa M. Th, Sa T. Th, Sa U. W. F M. T. Th Dly Dly Dly Dly Dly Dly Dly Dl

			RATES no Note)					RATES ee Not				RATES (See Note)				
Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per. Lb (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart
Reunion (Cont'd) Rio de Janeiro, Bra. Rio de Janeiro, Bra. Rio de Janeiro	MIA P MSY P HOU P BRO P HOU P BRO P HOU P LAX P HOU P LAX P HOU B BRO P LAX P HOU B BRO P HOU B BRO B CRP B HOU B BRO B CRP B HOU B	2 74 2 73 2 73 2 69 2 79 2 54 2 54 27 20 05 34 25	2 09 2 00 1 07 1 07 1 10 1 10 1 10 1 10 1 10 1	.20	W, Sa W, Sa W, Sa Dly Dly Dly T, F T, F T, F Su, T, W W, Sa T, Th, Sa T T T T T, Th, Sa W, Sa W, Sa W, Sa W, Sa W, Sa T, Th M M M Su W, Sa W, Sa W, Sa T, Th M M M Su W, Sa U, W Dly Dly Dly Dly Dly Dly Dly Dly Dly Su W, Sa U, M, Sa Su M, Sa Su, M, Sa Su	San Pedro Sula, Hond. San Salvador, El Salvador Santa Clara, Cuba. Santa Cruz, Bolivia Santa Maria, Azore Santa Maria, Azor	MSY P HOU P BRO BRO S BRO S BRO S BRO S BRO P HOU P LAX P HOU P BRO P LAX P HOU P BRO B BRO P BRO B BRO P BRO B BR	2 72 2 70 2 66 2 76 2 52 2 52 2 76 2 52 2 76 99 97 99 97 98 1 01 1 05 1 1 05	1 03 1 106 1 106 1 106 1 106 1 106 1 106 1 106 1 106 1 107 1	.30 .40 .30 .30 .30 .30 .40 .40 .40	Four Daily Dly W.T. F. M. T. W. T. F. M. T. W. Sa. Sa. Su. T. T. F. Dly M. Th M. T. W. Sa. Su. W. Su. T. T. Sa. M. T. W. Su. T. T. Sa. M. T. W. Su. T. T. Sa. M. Th Su. T.	Singapore (Cont'd) Siuma, Nicaragua Sofia, Bulgaria Stanleyville, Bel. Congo Stavenger, Norway Stockholm, Sweden Strasbourg, France Stuttgart, Germany Suva, Fiji Islands Sydney, Australia Sydney, Australia Tamatave, Madagascar Tamatave, Madagascar	BOS P P P P P P P P P P P P P P P P P P P	2 462 2 422 2 422 2 2 2 2 2 2 2 2 2 2 2	1. 666 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	400 400 400 400 400 400 400 400 400 400	Dly Dly Dly ex. Th,Sa Su,M,T,F M,Th,Sa Su,W,F T,F Sa W,Sa W,Sa

		(S	RATES ee Note	0)				(\$	RATES ee Note	9)				RATES (See Note)			
Destination	Airport and Airline	Per Lb. (Under 100 Lbs.)	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lb.(* (Un der 10 -0 Lbs	Per Lb. (Over 100 Lbs.)	Per \$100 Value	Depart	Destination	Airport and Airline	Per Lh. (Under 100 Lhs.)	Per Lh. (Over 100 Lhs.)	Per \$100 Value	Depart
Fapachula, Mexico. Fapachula, Mexico. Fegucigalpa, Hon Feberan, Iran Fel Aviv, Israel Tobago, B.W.I Tobago, B.W.I Tokyo, Japan	HOS AF CHILAF YML AF IDI. BO BOS BO YML BO MIA P HOU P HOU P BRO P LAX P MSY P HOU P BRO P LAX P MSY P HOU P BRO P LAX P MSY TA MIA TN IDL BO BOS BO YML BO IDL AF BOS AF CHILAF YML BO LAX S IDL B BOS LI IDL BI IDL EI IDL SS IDL P BOS S INDL P BOS BO YML BO IDL SS IDL SS IDL SS IDL P BOS BO YML BO IDL SS IDL S	7 2.68 7 2.69 6 2.68 7 2.72 7 2.72 7 2.49 7 2.74 7 2.49	1 31 1 34 1 39 1 1 39 1 3 3 5 3 3 5 3 5 3 5 3 5 5 5 5 6 5 6 5 6	400 400 400 400 400 400 400 400 400 400	Su W.Sa W.Sa W.Sa Su,M,W,F Sa Su,M,W,F Sa Su Diy M.T.W.Th,F M,W,Sa Diy Diy T.Sa W.Sa W.Sa W.Sa W.Sa W.Sa W.Sa T.Th,Sa Diy	Tokyo (Cont'd) Toronto, Ont., Can. Trapani, Italy Trieste, Italy Trinidad, Cuba Trujillo, Honduras. Tshikapa, Bel. Congo Tunis, Tunisia Tuxtla, Gutierres, Mexico Uxunbura, Rusanda-Urundi Vancouver, B. C., Canada Varadero, Cuba Veracrur, Mexico Victoria, Bratil Victoria, Bratil Victoria, Bratil Victoria, Bratil Victoria, B. C., Victoria de las Tumas, Coba Victoria, Austria	MEX TA IDL S IDL AF IDL LI BOS LI BOS LI BOS LI BOS SAF CHI AF YML AF IDL, TW BOS TW CHI TW MKC TW LAX TW IDL BOS BOS HOU P BRO P MIA P MIA P MIA P MIA P MIA P MOU P BRO P BRO U LAX P LOA U BOL U BOS U EWR U EWR U EWR U P DX U T SFO Q MIA P IDL LI MIA P IDL LI MIA P IDL S IDL	.07 .07 .07 .07 .07 .07 .07 .07 .07 .07	. 095%; 2944 30033.066 3066 2944 2944 2944 2944 225, 600 3130 3131 3131 3131 3147 315 315 315 315 315 315 315 315 315 315	400 400 100 100 100 100 100 100 100 100	Su, W, Th, Sa Su, W, Th, Sa Su	Vienna (Cont'd) "" Villahermosa, Mex Visby, Sweden Wake Island Warsaw, Poland Wellington, N. Z "" West End (Gr. Bah, Iyl.) Windhoek, S. W. Africa Windsor, Ont., Can. Winnepeg, Man., Canada "" Zagreb, Yugo Zurich, Switzerland	IDL T IDL NW YIP NW MKE NW MSP NW PDX NW CHI NW SEA NW IDL AF BOS AF CHI AF YML AF IDL SR	1 53 3 93 3 91 1 2 10 0 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 .50 .50 .50 .50 .50 .50 .50 .50 .50 .50	400 400 400 400 400 400 400 400 400 400	W.Sa W.Sa T.F.Sa Dly Su.Th.F. Th.Sa Dly

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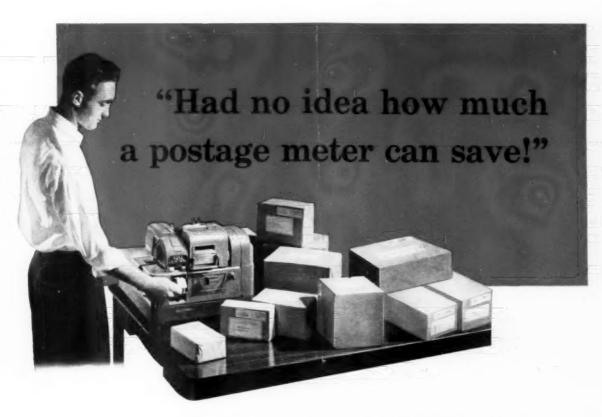
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